

Message

From: Fennessy, Christopher [christopher.fennessy@Rocket.com]
Sent: 12/18/2017 9:07:59 PM
To: Plate, Mathew [Plate.Mathew@epa.gov]
CC: Keller, Lynn [Keller.Lynn@epa.gov]
Subject: FW: [EXTERNAL] RE: Area 40 weather station
Attachments: 201711 - A40 Weather.xlsx; Fig04_Proposed_Ambient_Monitoring_Locations.pdf

Hi Mat - During the November ambient air sampling event at Area 40, our on-site weather station failed. It only recorded data for the first day or day and a half. Attached is the data from the on-site weather station, the AMPAC weather station, and the Iron Point/McAdoo weather station (this weather station compared best with local weather station during August event) for the 14 day event in November.

Lynn requested that I send you the data to see if you have any suggestions on how to use the data for analysis. The analytical results from the event have just been received. While they are still considered preliminary, they appear similar to the August event results. Specifically, we had detections of TCE at locations -SP01 (western sump), -SP02 (eastern sump), -SP05 (above Permeable Reactive Barrier along Prairie City Rd), and -SP08 (located on the southern border of the future residential neighborhood just northwest of the sump area). No other detections of TCE. Highest concentration during this event (0.91ug/m3) was at -SP02 (same as last event). This was the only location where TCE was detected at a concentration that exceeded the residential indoor air screening level of 0.48ug/m3. The concentration at -SP08 was 0.11ug/m3. The attached figure shows the locations and the TCE concentrations reported in the preliminary laboratory report.

We used the AMPAC weather station's average temperature over the 14 day period to provide to the laboratory for analytical correction. We plan on plotting up the wind rose for each of these weather stations and including that information in the tech memo. Let me know if there are any specific conclusions you find from the data.

Thanks! Chris

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-----Original Message-----

From: Arthur Forma [mailto:AForma@Geosyntec.com]
Sent: Monday, December 18, 2017 8:32 AM
To: Fennessy, Christopher
Subject: [EXTERNAL] RE: Area 40 weather station

The station recorded approximately 1.5 days of data (full set: temp, wind speed/direction, humidity, etc.) before it overheated and shut down. Attached is the output of the weather station data along with the data from the 2 nearby public stations (AMPAC and Iron Point) for the November event.

Arthur Forma, PG, CEG, CHG
Principal Hydrogeologist

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Mobile: 916.494.8110

-----Original Message-----

From: Fennessy, Christopher [mailto:christopher.fennessy@Rocket.com]
Sent: Monday, December 18, 2017 8:23 AM
To: Arthur Forma <AForma@Geosyntec.com>
Subject: Area 40 weather station

Hi Arthur - Can you tell me exactly what was recorded on the weather station at area 40 during the last event? Thanks Chris